


FORM PTO 1449 (modified)	Atty. Docket No. X-13168	Serial No 09/833647
INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicants Alborn, et al.	
	Filing Date April 18, 2001	Group 1623


## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date If Appropriate
	AA	4,395,399	7/26/83	Ovchinnikov, et al.			11/1/78
	AB	5,506,204	4/9/96	Aston			11/19/92
	AC	5,141,674	8/25/92	Leigh			06/24/91
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub-class	Translation	
							yes	no
	BA							
	BB							
	BC							

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	CA		C. Merseer, et al., "Synthesis of the Repeating Disaccharide Unit of the Glycan Moiety of the Bacterial Cell Wall Peptidoglycan" <u>Tetrahedron Lett.</u> , No. 13, pp. 1029-1032 (1973)
	CB		P.L. Durette, et al., "Synthesis of O-(2-acetamido-2-deoxy-β-D-glucosyl)-(1→4)-N-acetylmuramoyl-L-alanyl-D-isoglutamine, the repeating disaccharide-dipeptide unit of the bacterial cell-wall peptidoglycan", <u>Carbohydr. Res.</u> , Vol. 77 pp. C1-C4 (1979)
	CC		S. Kusumoto, et al., "Chemical Synthesis and Biological Activities of Two Disaccharide Dipeptides Corresponding to the Repeating Units of Bacterial Peptidoglycan", <u>Bull. Chem. Soc. Jpn.</u> , Vol. 59, pp. 1411-1417 (1986)
	CD		S. Kusumoto, et al., "Synthesis of β(1-4)-Linked Disaccharides of N-Acetylglucosamine and N-Acetylmuramic Acid by Their Direct Condensation" <u>Bull. Chem. Soc. Jpn.</u> , Vol. 59, pp. 1419-1423 (1986)
	CE		J. Farkas, et al., "The Synthesis of O-(2-Acetamido-2-Deoxy-β-D-Glucopyranosyl)-(1→4)-N-Acetylnormuramoyl-L-α-Aminobutanoyl-D-Isoglutamine", <u>Carbohydr. Res.</u> , Vol. 163, pp. 63-72 (1987)

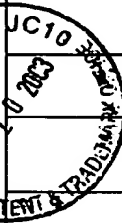
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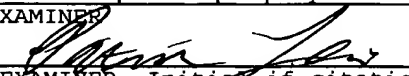
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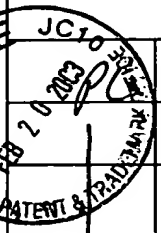
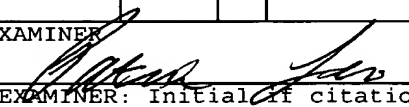
  

 PL ↓ PL ↓ PL ↓ PL	CF	W. Kinzy, et al., "Muraminsaure als Glycosyldonor und -akzeptor", <u>Liebigs Ann. Chem.</u> , pp. 407-415 (1987)
	CG	A. Termin, et al., "6-O-Benzylierte Muraminsaure als Glycosylakzeptor - Synthese des GlcNAc-β(1→4)-MurNAc-Disaccharids", <u>Liebigs Ann. Chem.</u> , pp. 789-795 (1989)
	CH	M. Ledvina, et al., "An Alternative Synthesis of O-(2-Acetamido-2-Deoxy-β-D-Glucopyranosyl)-(1→4)-N-Acetylnormuramoyl-L-α-Aminobutanoyl-D-Isoglutamine", <u>Collect. Czech. Chem. Commun.</u> , Vol. 54, pp. 2784-2794 (1989)
	CI	A. Termin, et al., "Synthesis of the GlcNAcβ(1→4)MurNAcβ(1→4)GlcNAcβ(1→4)MurNAc Tetrasaccharide of Bacterial Peptidoglycan", <u>Liebigs Ann. Chem.</u> , pp. 527-533 (1992)
	CJ	P.H. Gross, et al., "Stereochemically Pure Derivatives of Muramic and Isomuramic Acids", <u>Justus Liebigs Ann. Chem.</u> , pp. 37-45 (1986)
	CK	M.P. DeNinno, et al., "A Method for the Selective Reduction of Carbohydrate 4,6-O-Benzylidene Acetals", <u>Tetrahedron Lett.</u> , Vol. 36, pp. 669-672 (1995)
	CL	G-J Ho, et al., "Carbodiimide-Mediated Amide Formation in a Two-Phase System. A High-Yield and Low-Racemization Procedure for Peptide Synthesis", <u>J. Org. Chem.</u> , 60, pp.3569-3570 (1995)
	CM	M. Imoto, "Total Synthesis of <i>Escherichia coli</i> Lipid A, the Endotoxically Active Principle of Cell-Surface Lipopolysaccharide", <u>Bull. Chem. Soc. Jpn.</u> , Vol. 60, pp. 2205-2214 (1987)
	CN	V.T. Ivanov, et al., <u>Immunologiya No. 2</u> , 4-5 (1996)
	CO	I.E. Adrianova, et al., <u>Radiobiologiya</u> , Vol. 32, 566-70 (1992)
	CP	A.M. Palache, et al., "Adjuvancy and reactogenicity of N-acetylglucosaminyl-N-acetylmuramyl-dipeptide (GMDP) orally administered just prior to trivalent influenza subunit vaccine. A double-blind placebo-controlled study in nursing home residents", <u>Vaccine</u> , Vol. 14, pp. 1327-30 (1996)
	CQ	R.M. Khaitov, et al., "Immunotherapy of Infectious Postoperative Complications with Glucosaminyl Dipeptide", <u>Immunotherapy of Infections Ed.</u> , pp. 205-211 (1994)
	CR	H. Brotz, et al., "The Lantibiotic Mersacidin Inhibits Peptidoglycan Synthesis by Targeting Lipid II", <u>Antimicrob. Agents Chemother.</u> , 42, 154-160 (1998)
	CS	Y. Van Heuenoort, et al., "Membrane Intermediates in the Peptidoglycan Metabolism of <i>Escherichia coli</i> : Possible Roles of PBP 1b and PBP 3", <u>J. Bacteriol.</u> , 174 (11), pp. 3549-3557 (1992)
	CT	S. Hitchcock, et al., "The First Total Synthesis of Bacterial Cell Wall Precursor UDP-N-Acetylmuramyl-Pentapeptide (Park Nucleotide)", <u>J. Am. Chem. Soc.</u> , 120, 1916-1917 (1998)
CU	S. Kusumoto, et al., "Synthesis of N-Acetyl-β-D-Glucosaminyl-(1-4)-N-Acetylmuramyl-L-Alanyl-D-Isoglutamine", <u>Tetrahedron Lett.</u> , No. 45, pp. 4407-4410 (1978)	
CV	Whitesides, et al., "Synthesis of Glycosyl Phosphates Using the Fraser-Reid Activation", <u>J. Org. Chem.</u> , Vol. 56, pp. 4547-4549 (1991)	
CW	Sabesan, et al., "Synthesis of glycosyl phosphates and azides", <u>Carbohydr. Res.</u> , Vol. 223, pp. 169-185 (1992)	
CX	C. H. Wong, et al., "Synthesis and Use of Glycosyl Phosphites: An Effective Route to Glycosyl Phosphates, Sugar Nucleotides, and Glycosides", <u>J. Am. Chem. Soc.</u> , 115, pp. 2260-2267 (1993)	

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	CY	J.S. Anderson, et al., "Biosynthesis of the Peptidoglycan of Bacterial Cell Walls," <u>J. Biol. Chem.</u> , 242 (13), pp. 3180-3190 (1967)	
	DA	H.G. Khorana, et al., "The Total Synthesis of Coenzyme A", <u>J. Am. Chem. Soc.</u> , 81, 1265 (1959)	
	DB	H.G. Khorana, et al., "Nucleoside Polyphosphates. The Synthesis and Some Reactions of Nucleoside-5' Phosphoromorpholides and Related Compounds. Improved Methods for the Preparation of Nucleoside-5' Polyphosphates", <u>J. Am. Chem. Soc.</u> , 83, pp. 649-657 (1961)	
	DC	H.G. Khorana, et al., "Nucleoside Polyphosphates. An Improved General Method for the Synthesis of Nucleotide Coenzymes. Syntheses of Uridine-5', Cytidine-5' and Guanosine-5' Diphosphate Derivatives", <u>J. Am. Chem. Soc.</u> , 83, pp. 659-663 (1961)	
	DD	J. Wong, et al., "1H-Tetrazole as Catalyst in Phosphomorpholidate Coupling Reactions: Efficient Synthesis of GDP-Fucose, GDP-Mannose, and UDP-Galactose", <u>J. Org. Chem.</u> , 62, 2144-2147 (1997)	
	DE	Imperiali, et al., "Synthesis of Dolichylpyrophosphate-Linked Oligosaccharides", <u>Tetrahedron Lett.</u> , 31, pp. 6485-6488 (1990)	
	DF	J. K. Coward, et al., "Synthesis and Evaluation of Synthetic Analogues of Dolichyl-P-P-Chitobiose as Oligosaccharyltransferase Substrates", <u>Biorq. Med. Chem. Lett.</u> , 5, pp. 2701-2706 (1995)	
	DG	R. W. Jeanloz, et al., Chemical Synthesis of Pyrophosphodiester of Carbohydrates and Isoprenoid Alcohols Lipid Intermediates of Bacterial Cell Wall and Antigenic Polysaccharide Biosynthesis", <u>Biochemistry</u> , 11, pp. 2565-2572 (1972)	
	DH	A. R. Battersby, et al., "Studies on Specific Chemical Fission of Peptide Links. Part I. The Rearrangement of Aspartyl and Glutamyl Peptides", <u>J. Chem. Soc.</u> , 259 pp. 259-269 (1955)	
	DI	E. Sondheimer, et al., "Imides from Asparagine and Glutamine. II. Alpha-Aminoglutarimide", <u>J. Am. Chem. Soc.</u> , 79, pp. 3767-3770 (1957)	
	DJ	D. Keglevic, et al., "Synthesis and Reactions of O-acetylated benzyl alpha-glycosides of 6-O(2-acetamido-2-deoxy-beta-D-glucopyranosyl)-N-acetylmuramoyl-L-alanyl-D-isoglutamine esters: The Base-Catalysed Isoglutamine • Glutamine Rearrangement in Peptidoglycan-Related Structures", <u>Carb. Res.</u> , 186, pp. 63-75 (1989)	
	DK	D. Keglevic, et al., "Peptidoglycan-Related Disaccharide-Dipeptides: Differentiation Between Glutamyl and Isoglutamyl Residues by NMR Spectroscopy", <u>J. Carbohydrate Chem.</u> , 11, pp. 119-136 (1992)	
	DL	G. Auger, et al., "Synthesis of an Analogue of the Lipoglycopeptide Membrane Intermediate I of Peptidoglycan Biosynthesis," <u>Letters In Peptide Science</u> , 4, pp. 371-376 (1997)	
	PL	DM	B. Schwartz, et al., "Lipid II: Total Synthesis of the Bacterial Cell Wall Precursor and Utilization as a Substrate for Glycosyltransfer and Transpeptidation by Penicillin Binding Protein (PBP) 1b of <i>Escherichia coli</i> ," <u>J. Am. Chem. Soc.</u> , 123, pp. 11638-11643 (2001)
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